SHARP

MICRO COMPONENT SYSTEM

MODEL

XL-UH4H

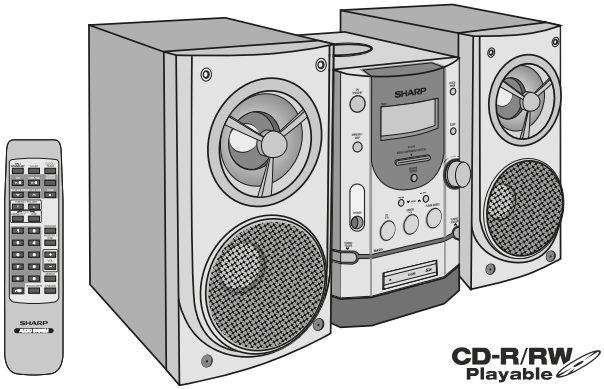
OPERATION MANUAL

If you require any advice or assistance regarding your Sharp product, please visit our web-site www.sharp.co.uk/customersupport.aspx Customers without Internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).

Note:
This product is not compatible with MTP and AAC file systems.

Thank you for purchasing this SHARP product.
To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

XL-UH4H Micro Component System consisting of XL-UH4H (main unit) and CP-UH4H (speaker system).



Special notes

NOTES FOR USERS IN THE U.K. AND IRELAND

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 3A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ♆ or ⊛ and of the same rating as above, which is also indicated on the pin face of the plug must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut-off the mains plug and fit an appropriate type.

DANGER:
The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.
To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:
Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three pin plug.

Before replacing the plug cover, make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The lead grip is clamped over the sheath of the mains lead and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

SERVICE INFORMATION
In the unlikely event of your equipment requiring repair, please contact the dealer or supplier from whom it was purchased. Where this is not possible, please visit our web-site www.sharp.co.uk/customersupport.aspx
Customers without internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).
Please note; all calls will be charged at local rate.

Certain replacement parts and accessories may be obtained from our main parts distributor.

WILLOW VALE ELECTRONICS LTD.
0121 766 5414

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of the date of purchase to the repairing company.
Please keep your invoice or receipt, which is supplied at the time of purchase.

WARNINGS

- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION

- This product is classified as a CLASS 1 LASER product.
- Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

  As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

Laser Diode Properties
Material: GaAlAs
Wavelength: 790 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW

CAUTION-INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
WARNUNG-UNSICHTBARE LASERSTRAHLUNG WENN GERÄT GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.
ATTENTION-RAYON LASER INVISIBLE EN CAS D'OUVERTURE. NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES INSTRUMENTS OPTIQUES.
SHARP

Information on Proper Disposal

Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dustbin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

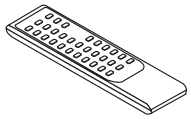
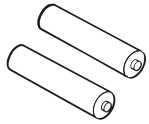
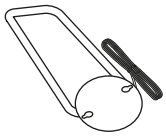
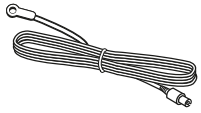
If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

Special Note

Supply of this product does not convey a license nor imply any right to distribute content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), revenue-generating streaming applications (via Internet, intranets and/or other networks), other revenue-generating content distribution systems (pay-audio or audio-on-demand applications and the like) or on revenue-generating physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit http://mp3licensing.com.
MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Accessories

Please confirm that the following accessories are included.

 **Remote control × 1**	 **"AAA" size battery (UM-4, R03, HP-16 or similar) × 2**
 **AM loop aerial × 1**	 **FM aerial × 1**

Note:
Only the above accessories are included.

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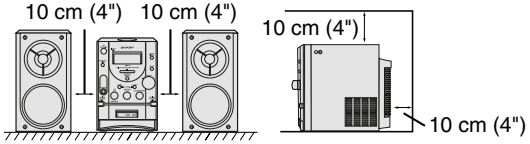
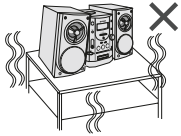
Precautions

■ General

- Please ensure that the equipment is positioned in a well-ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.

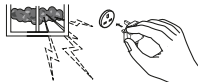


- Use the unit on a firm, level surface free from vibration.

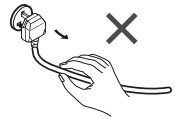


- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.

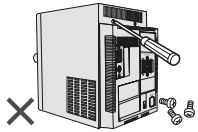
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60˚C (140˚F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
- In case of an electrical storm, unplug the unit for safety.



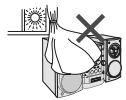
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
- The AC power plug is used as disconnect device and shall always remain readily operable.



- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.



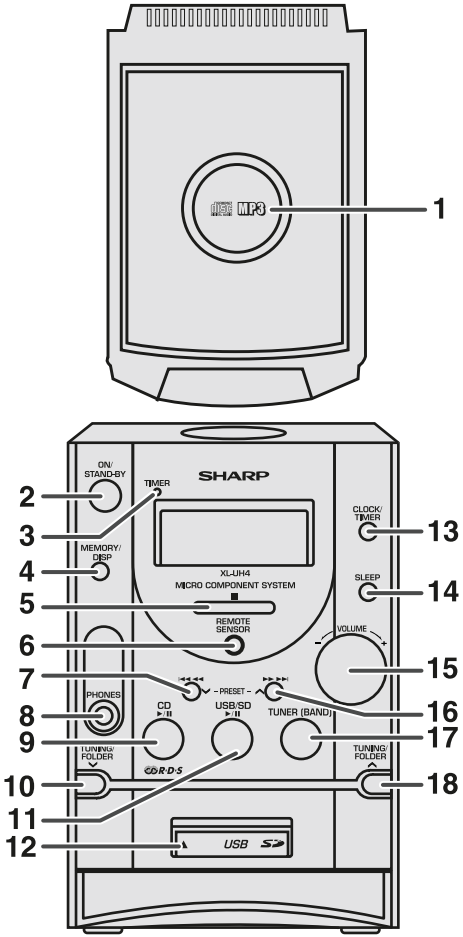
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- This unit should only be used within the range of 5˚C - 35˚C (41˚F - 95˚F).
- The apparatus is designed for use in moderate climate.

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels.

Controls and indicators



■ Front panel

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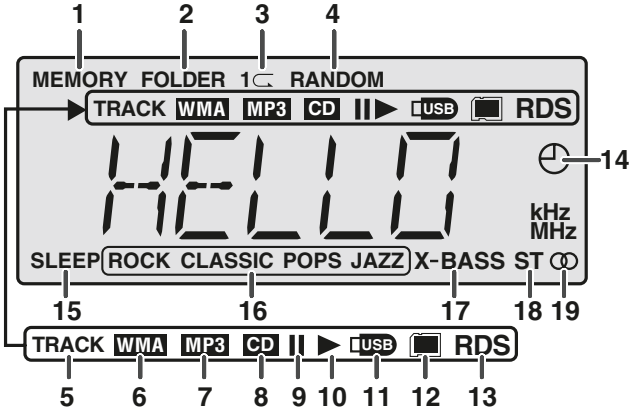
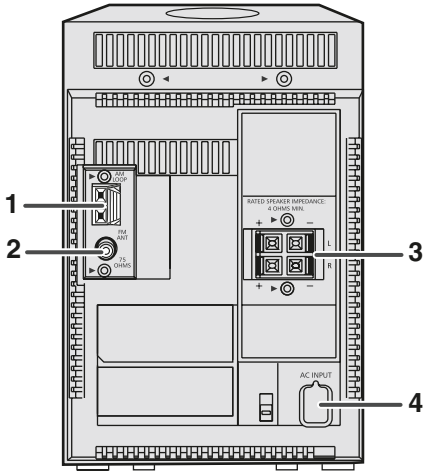
17. Tuner (Band) Button 29
18. Tuning Up/Folder Up Button 22, 23, 25, 29





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■ Speaker system

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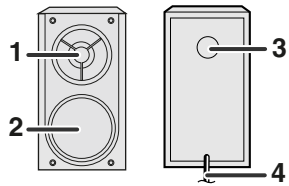
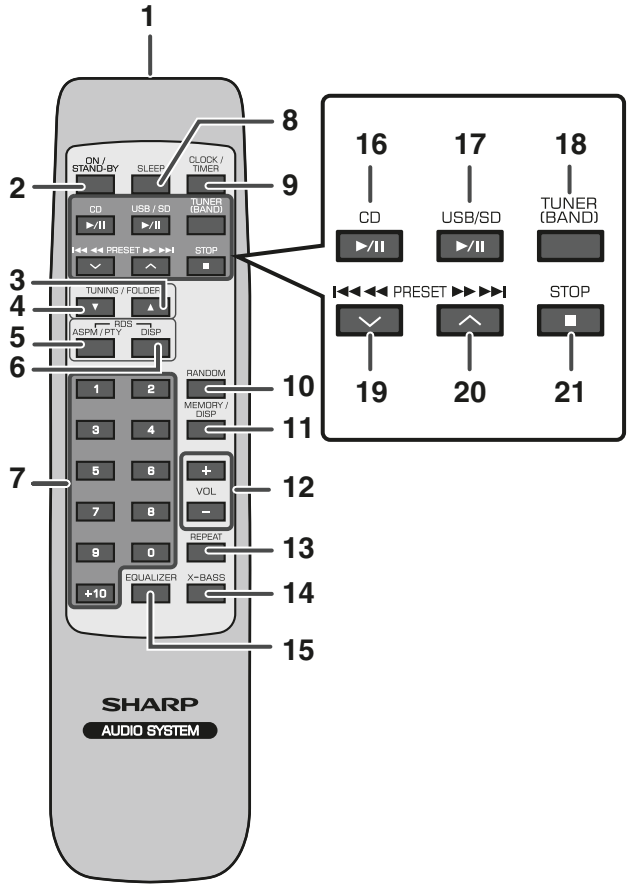
2. Woofer
3. Bass Reflex Duct
4. Speaker Wire



Controls and indicators (continued)



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9. Clock/Timer Button 14, 35, 36
10. Random Button 28
11. Memory/Disp Button 22, 30
12. Volume Up and Down Buttons 13
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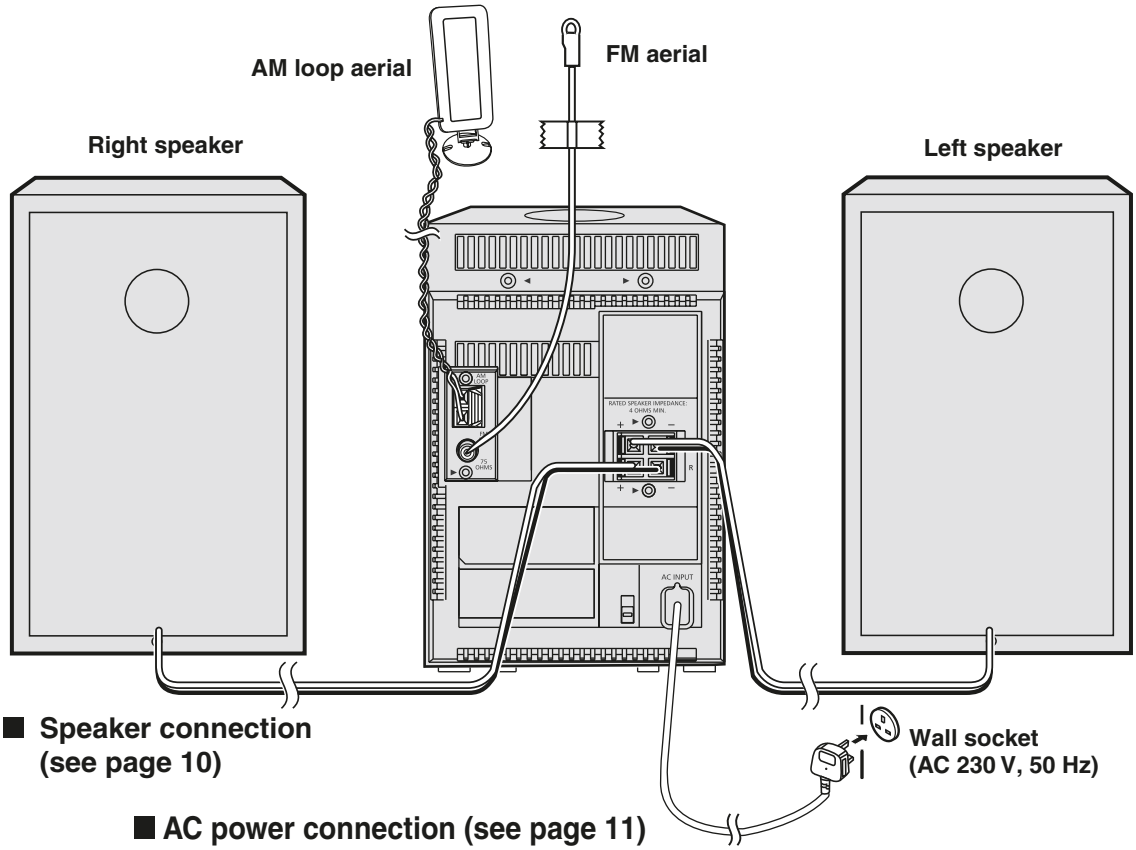
14. Extra Bass Button 13
15. Equaliser Button 13
16. CD Play and Pause Button 15, 16, 22
17. USB/SD Play and Pause Button 23, 24, 25
18. Tuner (Band) Button 29
19. Disc Track Down or Fast Reverse, Tuner Preset Down, Time Down Button 14, 19, 22, 23, 24, 25, 29, 30, 31, 35
20. Disc Track Up or Fast Forward, Tuner Preset Up, Time Up Button 14, 19, 22, 23, 24, 25, 29, 30, 31, 35
21. Disc or USB or SD Stop Button 19, 24, 25

System connections

Make sure to unplug the AC power lead before any connections.

■ Aerial connection (see page 10)



■ Speaker connection (see page 10)

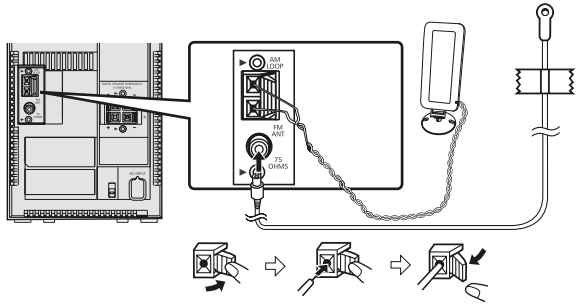
■ AC power connection (see page 11)

System connections (continued)

■ Aerial connection

Supplied FM aerial:
Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

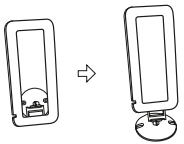
Supplied AM loop aerial:
Connect the AM loop aerial to the AM loop aerial terminals. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).



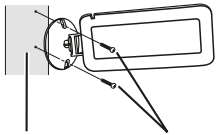
Note:
Placing the aerial on the unit or near the AC power lead may cause noise pickup. Place the aerial away from the unit for better reception.

Installing the AM loop aerial:

< Assembling >



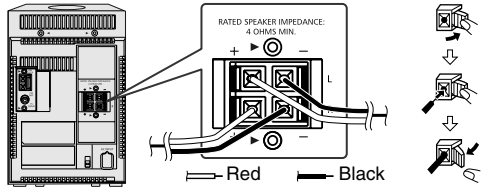
< Attaching to the wall >



Wall Screws (not supplied)

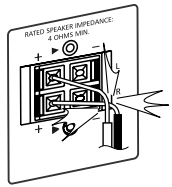
■ Speaker connection

Connect the black wire to the minus (-) terminal, and the red wire to the plus (+) terminal.



Caution:

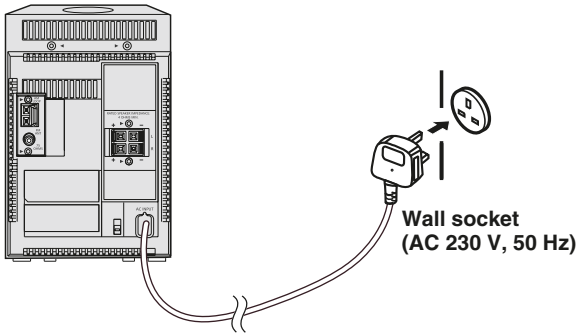
- Use speakers with an impedance of 4 ohms or more, as lower impedance speakers can damage the unit.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- **Do not let the bare speaker wires touch each other.**
- Do not allow any objects to fall into or to be placed in the bass reflex ducts.
- Do not stand or sit on the speakers. You may be injured.



Incorrect

■ AC power connection

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket. If you plug in the unit first, the unit will enter the stand-by mode.

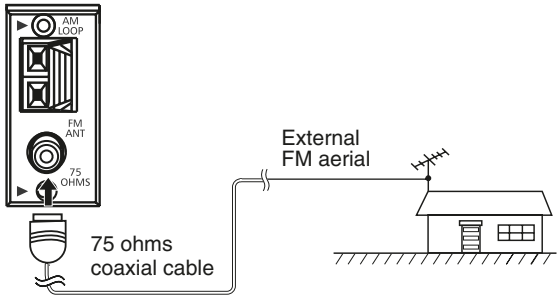


Note:

- Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

■ External FM aerial

Use an external FM aerial if you require better reception. Consult your dealer.



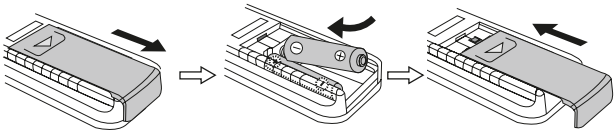
Note:

When an external FM aerial is used, disconnect the supplied FM aerial wire.

Remote control

■ Battery installation

1 **Open the battery cover.**
2 **Insert the batteries according to the direction indicated in the battery compartment.**
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
3 **Close the cover.**



Precautions for battery use:
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:
- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Installing the batteries incorrectly may cause the unit to malfunction.

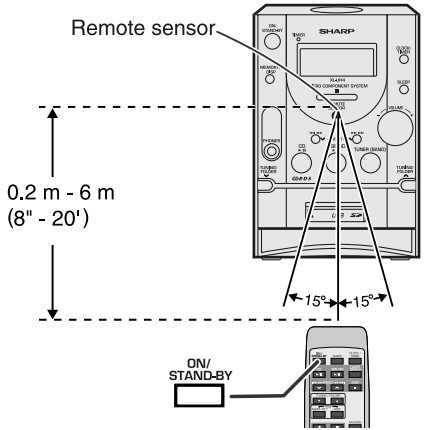
Battery removal:
Open the battery cover and pull up the battery to take out.

Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AAA" size batteries (UM-4, R03, HP-16 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit if this occurs.
- Keep the remote control away from moisture, heat, shock, and vibrations.

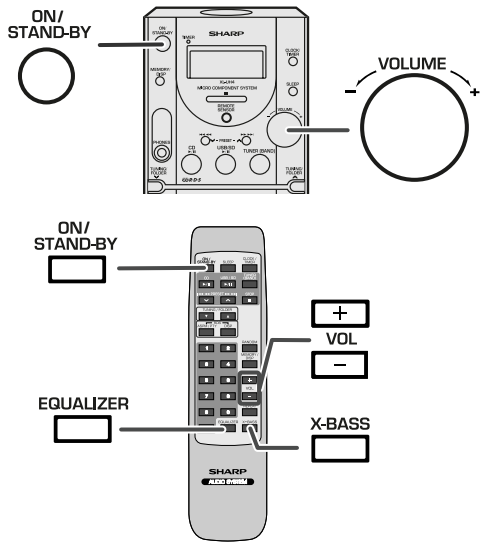
■ Test of the remote control

After installing the unit (see pages 9 - 11), check that the remote control operates correctly.
Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can use the unit.



General control



■ To turn the power on

Press the ON/STAND-BY button to turn the power on.

After use:

Press the ON/STAND-BY button to enter the power stand-by mode.

■ Auto power off function

In the stop mode of CD/USB/SD operation, the main unit enters the stand-by mode after 10 minutes of inactivity.

■ Volume auto set-in

- If you turn off and on the main unit with volume set to 16 or higher, the volume will start at 16.
- If you turn the unit off then on again with the volume level set to less than 15, it will turn on again at the level set.

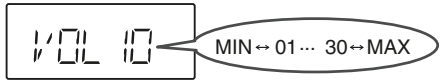
■ Volume control

Main unit operation:

When the VOLUME control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.

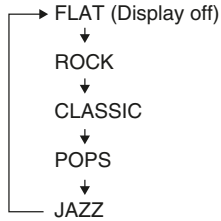
Remote control operation:

Press the VOLUME (+ or -) button to increase or decrease the volume.



■ Equaliser

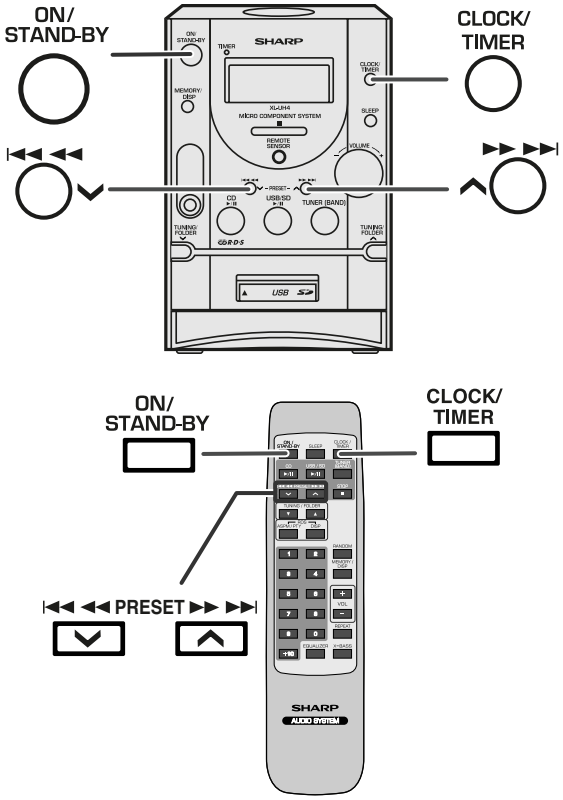
When the EQUALIZER button on the remote control is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER button repeatedly until the desired sound mode appears.



■ X-BASS

When the X-BASS button on the remote control is pressed, the unit will enter the extra bass mode which emphasises the bass frequencies and "X-BASS" will appear. To cancel the extra bass mode, press the X-BASS button again.

Setting the clock



In this example, the clock is set for the 24-hour (0:00) display.

1	**In STAND-BY condition.**
2	**Press the CLOCK/TIMER button for more than 2 seconds.**
3	**Within 10 seconds, press the PRESET (∨ or ∧) button to set hour.**
4	**Press the CLOCK/TIMER button again.**
5	**Within 10 seconds, press the PRESET (∨ or ∧) button to set minute.**
6	**Press the CLOCK/TIMER button. The clock is set.**

To confirm the time display:
Press the CLOCK/TIMER button. The time display will appear for about 5 seconds.

Notes:
- To reset the clock if the power fails or is unplugged, the unit must be in the STAND-BY mode.
- "0:00" or time will flash when the AC power supply is restored after a power failure or unplugging the unit or when reset button is pressed.
  Readjust the clock as follows:

To readjust the clock:
Perform "Setting the clock" from beginning.

Listening to a CD or MP3/WMA disc

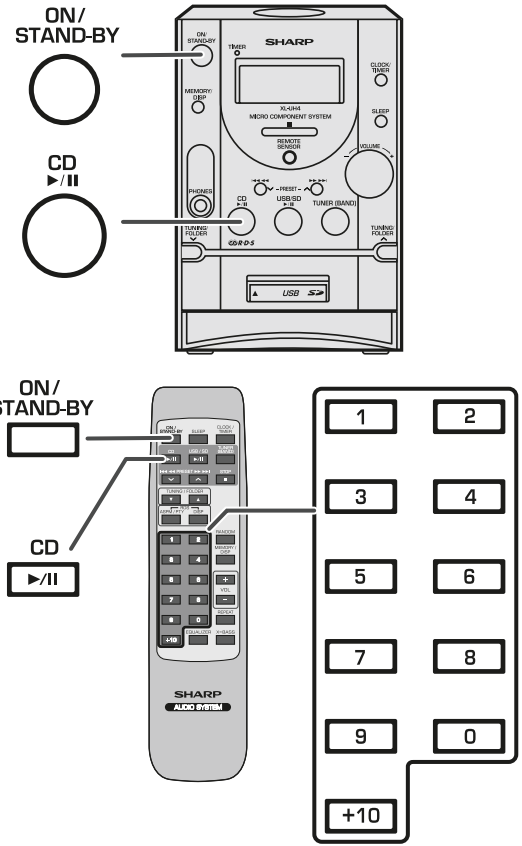
This system can play back a standard CD, CD-R/RW in the CD format and CD-R/RW with MP3 or WMA files, but cannot record on them. Some audio CD-R and CD-RW discs may not be playable due to the state of the disc or the device that was used for recording.

MP3:
MP3 is a form of compression. It is an acronym which stands for MPEG Audio Layer 3.
MP3 is a type of audio code which is processed by significant compression from the original audio source with very little loss in sound quality.

- This system supports MPEG 1 Layer 3 and VBR files.
- During VBR file playback, time counter in the display may differ from its actual playback time.
- Bitrate which is supported by MP3 is 32 ~ 320 kbps.

WMA:
WMA files are Advanced System Format files that include audio files which are compressed with Windows Media Audio codec. WMA is developed by Microsoft as an audio format file for Windows Media Player.

- "MP3" and "WMA" indicator will light up after the unit reads information on an MP3 or WMA disc.
- Bitrate which is supported by WMA is 64 ~ 160 kbps.

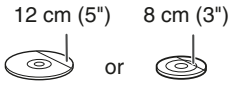


Listening to a CD or MP3/WMA disc (continued)

1 **Press the ON/STAND-BY button to turn the power on.**

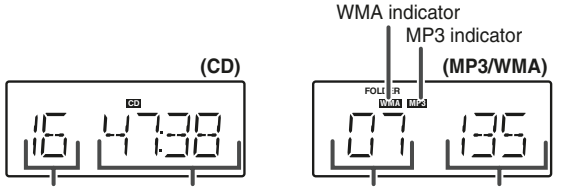
2 **Open the CD compartment.**

3 **Place the disc on the spindle, label side up. 8 cm (3") discs may be played without an adaptor.**



4 **Close the CD compartment.**

5 **Press the CD ► / II button to start playback.**



To interrupt playback:
- Press the CD ► / II button during playback.
- Press the CD ► / II button again to resume playback.

To listen to the track being played again:
During playback, press the I◄◄ ◄◄ button.

To move to the beginning of the next track:
During playback, press the ►► ►►I button.

To skip a number of tracks at one time:
Press the I◄◄ ◄◄ or ►► ►►I button repeatedly until the desired track number is shown.

To start playback a desired track:
Press the I◄◄ ◄◄ or ►► ►►I button whilst in the stop mode to select the track number and then press the CD ► / II button.

To fast forward audibly:
During playback, press and hold down the ►► ►►I button. Release the button to resume playback.

To fast reverse audibly:
During playback, press and hold down the I◄◄ ◄◄ button. Release the button to resume playback.

To stop playback:
Press the ■ button.

Caution:
- Do not play discs with special shapes (heart or octagon shaped) as it may cause malfunctions.
- If a disc is damaged, dirty, or loaded upside down, "NO DISC" will appear on the display.
- Keep foreign objects out of the disc compartment.
- Subjecting the unit to shock or vibration may cause mistracking.
- When the unit is not being used, be sure to close the disc compartment. If it is left open, the lens may be covered with dust and the unit may not operate properly.
- If TV or radio interference occurs during disc operation, move the unit away from the source of the interference.

Advanced CD or MP3/WMA disc playback

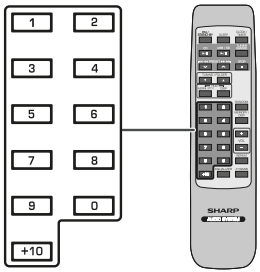
■ Direct track search

By using the direct search buttons, the desired tracks on the current disc can be played.

Use the direct search buttons on the remote control to select the desired track whilst playing or in the stop mode.

Selected track number

- The direct search buttons allow you to select up to number 9.
- When selecting number 10 or higher, use the "+10" button.



Whilst in the stop mode:

Press the direct search button to select desired track and the selected track will be played back.

Whilst playing the disc:

The desired track can be selected by simply pressing the direct search button and the selected track will be played back.

Notes:

- A track number higher than the number of tracks on the disc cannot be selected.
- During random play, direct search is not possible.
- For CD-R/RW discs recorded in the MP3 or WMA format, you can select the track number but cannot select the folder by pressing the direct search buttons.

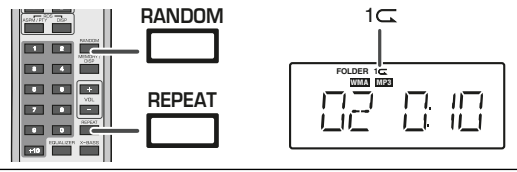
To stop playback:

Press the ■ button.

Advanced CD or MP3/WMA disc playback (continued)

■ Repeat play (REMOTE CONTROL ONLY)

Repeat play can play single track and all track sequence continuously.



Each time press the button, the repeat mode changes in the following order:

In case of an audio CD mode:

→ Repeat playback of a single track
1
↓
Repeat playback of all tracks on the disc
↓
Repeat playback of folder on the disc when in folder mode
Folder
↓
Repeat playback is cancelled

■ Random play (REMOTE CONTROL ONLY)

The tracks on the disc(s) can be played in random order automatically.

To random play all tracks:

Press the RANDOM button on the remote control so that the random indicator light up in the display window.

To cancel random playback, press the button again, so that the random indicator will disappear.

Notes:

- If you press the ⏮ ◀◀ or ▶▶ ⏭ button during random play, you can move to the track selected next by the random operation.
- In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)
- During random play, repeat function is not possible.
- In random function, playback will stop after all the tracks are played randomly.

Caution:

After performing repeat, be sure to press the ■ button.
Otherwise, it will play continuously.

Note:

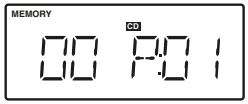
(※) When in folder mode, the selected playmode can be used for the files in the selected folder only.

Notes:

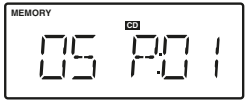
- This unit only supports "MPEG-1 Audio Layer-3" format. (Sampling Frequency is 32, 44.1, 48kHz) "MPEG-2 Audio Layer-3", "MPEG-2.5 Audio Layer-3" and MP1, MP2 format are not supported.
- Playback order for MP3 files may differ sometimes depending on the writing software used during file download.
- Bitrate which is supported by MP3 is 32~320 kbps, WMA is 64~160 kbps.
- For MP3/WMA files, please put ".MP3" ".WMA" extension. Files cannot be played back if there is no MP3/WMA extension.
- Playlists are not supported on this unit.
- This unit only supports MP3 ID3-Tag version 1.x.
- The display playback time may not be displayed correctly when playing back a variable bitrate file.
- WMA meta tag also supports title, artist and album name which are recorded in WMA files.
- Copyright protected WMA files cannot be played back.

■ Programmed play

1 **Whilst in the stop mode, press the MEMORY/DISP button to enter the programming save mode.**

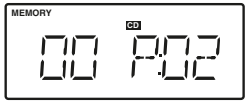


2 **Press the direct search buttons on the remote control to select the desired tracks.**



You can also select a track by pressing the ⏮ ◀◀ or ▶▶ ⏭ button.

3 **Press the MEMORY/DISP button to save the track number.**

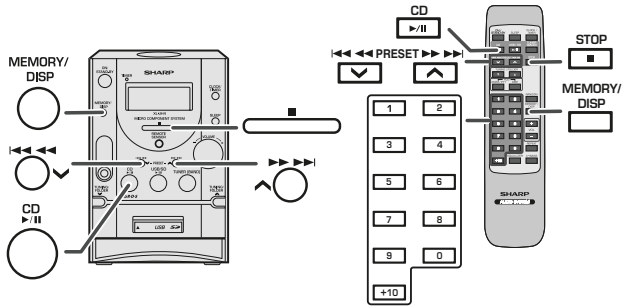


4 **Repeat steps 2 – 3 for other tracks. Up to 32 tracks can be programmed.**

5 **Press the CD ► / II button to start playback.**

To cancel the programmed play mode:
Press the ■ button or STOP ■ button on the remote control. The "MEMORY" indicator will disappear and all the programmed contents will be cleared.

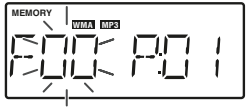
Notes:
- If the disc lid is opened, the programmed sequence will be cancelled.
- The programme will automatically cancelled if you press the ON/STAND-BY button to enter the stand-by mode or change the function from CD to another.
- During the programme operation, press the RANDOM button will automatically cancelled the programme.



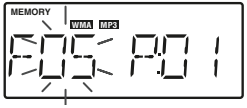
Advanced CD or MP3/WMA disc playback (continued)

■ Programmed play (Folder mode)

1 **Whilst in the stop mode, press the MEMORY/DISP button to enter the programming save mode.**

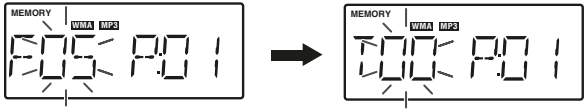


2 **Press the direct search buttons on the remote control to select the desired folder.**

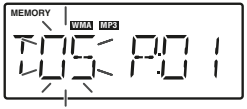


You can also select a folder by pressing the TUNING/FOLDER (▼ or ▲) button.

3 **Press the MEMORY/DISP button to save the folder number.**

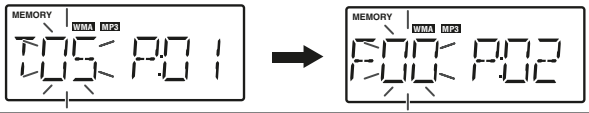


4 **Press the direct search buttons on the remote control to select the desired tracks.**



You can also select a track by pressing the ⏮ ◀◀ or ▶▶ ⏭ button.

5 **Press the MEMORY/DISP button to save the track number.**

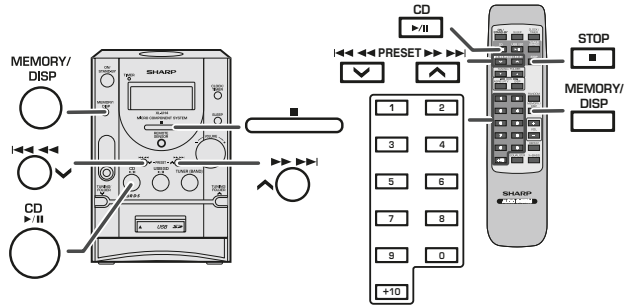


6 **Repeat steps 2 – 5 for other folder/tracks. Up to 32 tracks can be programmed.**

7 **Press the CD ► / II button to start playback.**

To cancel the programmed play mode:
Press the ■ button or STOP ■ button on the remote control. The "MEMORY" indicator will disappear and all the programmed contents will be cleared.

Notes:
- If the disc lid is opened, the programmed sequence will be cancelled.
- The programme will automatically cancelled if you press the ON/STAND-BY button to enter the stand-by mode or change the function from CD to another.
- During the programme operation, press the RANDOM button will automatically cancelled the programme.



MP3/WMA folder mode (only for MP3/WMA files)

To playback MP3/WMA (Windows Media Audio) file

There are many music sites on the internet that you can download MP3/WMA (Windows Media Audio) music files. Follow the instructions from the website on how to download the music files.
You can then playback these downloaded music files by burning them to a CD-R/RW disc or by connecting a USB Memory Player device.

- Your downloaded song/files are for personal use only. Any other usage of the song without owner's permission, is against the law.

■ About folder playback order

If MP3/WMA files are recorded in several folders, a folder number will be set to each folder automatically.

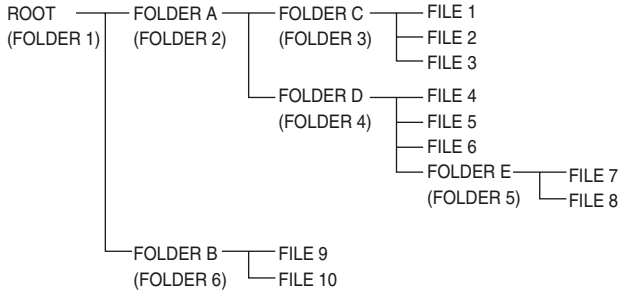
These folders can be selected by the TUNING/FOLDER button on the remote control. If there is no supported file formats inside the selected folder, the folder is skipped and the next folder will be selected.

Example: How to set folder number if MP3/WMA format files are recorded as below figure.

1. ROOT folder is set as folder 1.
2. As for folders inside ROOT folder (Folder A and Folder B), the folder which is recorded earlier on the disc will be set as folder 2.
3. As for folder inside Folder A (Folder C and Folder D), the folder which is recorded earlier on the disc will be set as folder 3.
4. Because there is no folder in Folder C, Folder D will be set as folder 4.
5. Folder E that is inside Folder D will be set as folder 5.
6. Folder B inside ROOT folder will be set as folder 6.

* The folder and file order information which is recorded on the disc depends on the writing software. There maybe possibilities that this unit will playback the files not according to our expected playback order.

All the files inside the selected folder will be played back.
In case Folder D is selected, file 4, 5 and 6 will be played back. File 7 and 8 in Folder E will not be played back.



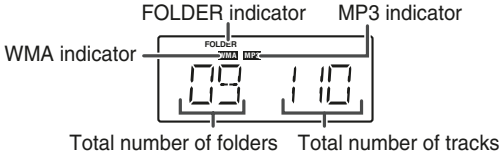
MP3/WMA folder mode (only for MP3/WMA files) (continued)

■ Procedure to playback MP3/WMA disc

To playback CD-R/RW.

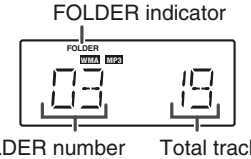
1 Press the CD button, and load a MP3/WMA disc.

- After disc is loaded, the disc info will be displayed.



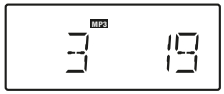
- In case in folder mode, proceed to step 2.
- In case track is selected, proceed to step 3.

2 Press the TUNING/FOLDER (▼ or ▲) button to select desired playback folder.



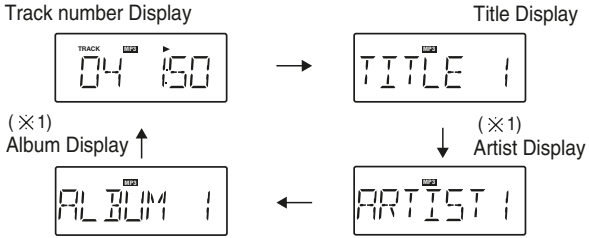
- To start playback with folder mode, go to step 4.
- To change the playback folder, press the TUNING/FOLDER (▼ or ▲) to select another folder.
- In case of playback in the folder mode, press the TUNING/FOLDER (▼ or ▲) button, and the desired folder can be selected even though it is in playback mode.
  It will continue playback mode in the 1st track of the selected folder.

3 Select desired track to be played back by pressing the ⏮ ◀◀ or ▶▶ ⏭ button. Proceed to step 4.



4 Press the CD ► / II button and playback will start.

- Press the MEMORY/DISP button (ID3 ON/OFF) to display Title, Artist and Album name if it is recorded on the disc.
- ID3 ON - Title, Artist and Album name is displayed.
- ID3 OFF - Title, Artist and Album name is not displayed.

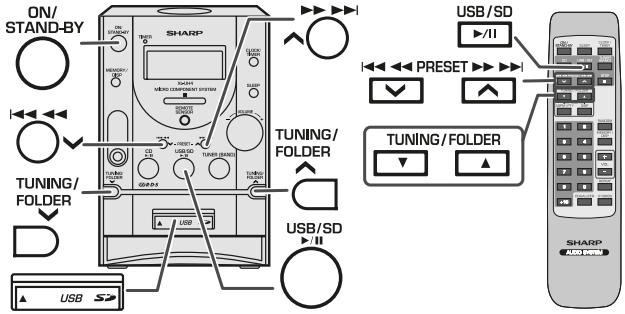


(※ 1) MP3 ID3-Tag only support version 1.x.

Note:

- If "ERR DISC" is displayed, it means "Copyright protected WMA file" or "Not supported playback file" is selected.

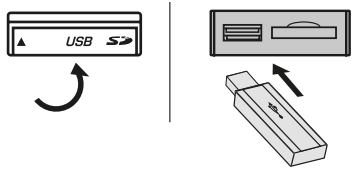
Listening to USB mass storage device / MP3 player



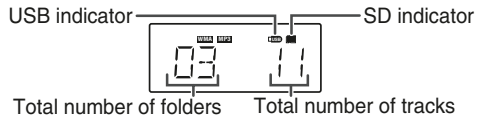
Note:
This product is not compatible with MTP and AAC file systems.

1 Press the USB/SD ► / II button, and push up the USB door. Connect the USB memory device that has MP3/WMA format files on the unit.

- To select USB or SD function, press and hold the USB/SD ► / II button for more than 2 seconds.



When the USB memory is connected to the main unit, the device information will be displayed.



- In case in folder mode, proceed to step 2.
- In case track is selected, proceed to step 3.

2 Press the TUNING/FOLDER (▼ or ▲) button to select desired playback folder.

- To start playback with folder mode, go to step 4.
- To change the playback folder, press the TUNING/FOLDER (▼ or ▲) button to select another folder.
- In case of playback in the folder mode, press the TUNING/FOLDER (▼ or ▲) button, and the desired folder can be selected even though it is in playback mode. It will continue playback mode in the 1st track of the selected folder.

3 Select desired track to be played back by pressing the ⏮ ◀◀ or ▶▶ ⏭ button. Proceed to step 4.

4 Press the USB/SD ► / II button. Playback will start and the track name will be displayed.

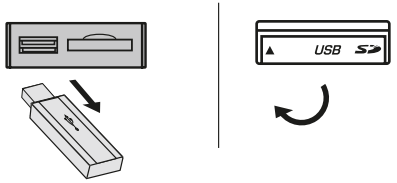
- Press the MEMORY/DISP button (ID3 ON/OFF) to display Title, Artist and Album name.
- ID3 ON - Title, Artist and Album name is displayed.
- ID3 OFF - Title, Artist and Album name is not displayed.

Note:
To pause playback:
Press the USB/SD ► / II button.

To remove USB memory device

1 **Press the STOP ■ button on the remote control or ■ button on the main unit.**

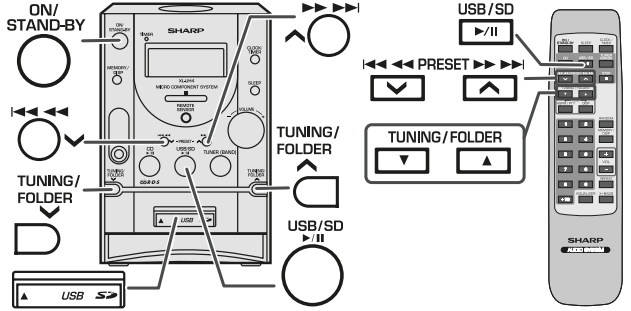
2 **Disconnect USB memory device from the USB terminal.**



Notes:

- SHARP will not be held liable for the loss of data whilst the USB memory device is connected to the audio system.
- Files compressed in MP3 and / or WMA format can be played back when connected to the USB terminal.
- This USB memory's format support FAT 16 or FAT 32.
- SHARP cannot guarantee that all USB memory devices will work on this audio system.
- This USB memory cannot be operated via USB hub.
- If "NO SONG" is displayed, it means "Copyright protected WMA file" or "Not supported playback file" is selected.
- The USB terminal in this unit is not intended for a PC connection but is used for music streaming with a USB memory device.
- The larger the capacity of the USB storage device, the longer it will take for the data to be read.
- Some USB multi-reader devices may not work correctly with the USB terminal on this unit.
- External storages devices cannot be played back using the USB terminal on this unit.

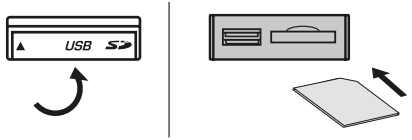
Listening to SD mass storage device / MP3 player



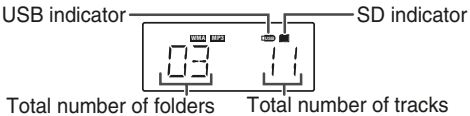
Note:
This product is not compatible with MTP and AAC file systems.

1 **Press the USB/SD ► / II button, and push up the USB door. Connect the SD memory device that has MP3/WMA format files on the unit.**

- To select USB or SD function, press and hold the USB/SD ► / II button for more than 2 seconds.



When the SD memory is connected to the main unit, the device information will be displayed.



- In case in folder mode, proceed to step 2.
- In case track is selected, proceed to step 3.

2 **Press the TUNING/FOLDER (▼ or ▲) button to select desired playback folder.**

- To start playback with folder mode, go to step 4.
- To change the playback folder, press the TUNING/FOLDER (▼ or ▲) button to select another folder.
- In case of playback in the folder mode, press the TUNING/FOLDER (▼ or ▲) button, and the desired folder can be selected even though it is in playback mode. It will continue playback mode in the 1st track of the selected folder.

3 **Select desired track to be played back by pressing the ⏮ ◀◀ or ▶▶ ⏭ button. Proceed to step 4.**

4 **Press the USB/SD ► / II button. Playback will start and the track name will be displayed.**

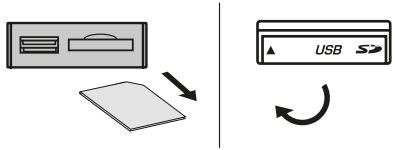
- Press the MEMORY/DISP button (ID3 ON/OFF) to display Title, Artist and Album name.
- ID3 ON - Title, Artist and Album name is displayed.
- ID3 OFF - Title, Artist and Album name is not displayed.

Note:
To pause playback:
Press the USB/SD ► / II button.

To remove SD memory device

1 **Press the STOP ■ button on the remote control or ■ button on the main unit.**

2 **Remove SD memory device from the SD terminal.**



Notes:

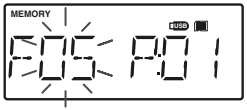
- SHARP will not be held liable for the loss of data whilst the SD memory device is connected to the audio system.
- Files compressed in MP3 and / or WMA format can be played back when connected to the SD terminal.
- This SD memory's format support FAT 16 or FAT 32.
- SHARP cannot guarantee that all SD memory devices will work on this audio system.
- This SD memory cannot be operated via SD hub.
- If "NO SONG" is displayed, it means "Copyright protected WMA file" or "Not supported playback file" is selected.
- The SD terminal in this unit is not intended for a PC connection but is used for music streaming with a SD memory device.
- The larger the capacity of the SD storage device, the longer it will take for the data to be read.
- Some SD multi-reader devices may not work correctly with the SD terminal on this unit.
- External storages devices cannot be played back using the SD terminal on this unit.

Advanced USB/SD playback

■ Programmed play

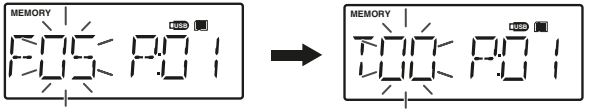
1 **Whilst in the stop mode, press the MEMORY/DISP button to enter the programming save mode.**

2 **Press the direct search buttons on the remote control to select the desired folder.**



You can also select a folder by pressing the TUNING/FOLDER (▼ or ▲) button.

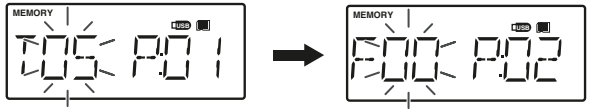
3 **Press the MEMORY/DISP button to save the folder number.**



4 **Press the direct search buttons on the remote control to select the desired tracks.**

You can also select a track by pressing the ⏮ ◀◀ or ▶▶ ⏭ button.

5 **Press the MEMORY/DISP button to save the track number.**

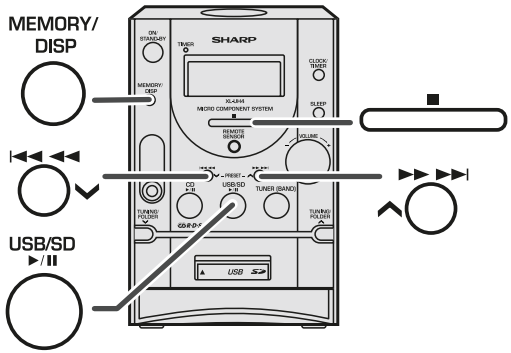


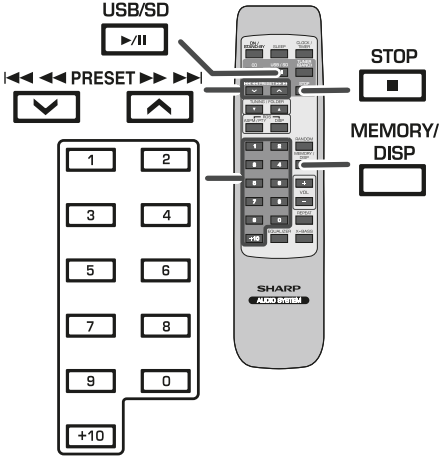
6 **Repeat steps 2 – 5 for other folder/tracks. Up to 32 tracks can be programmed.**

7 **Press the USB/SD ► / II button to start playback.**

To cancel the programmed play mode:
Press the ■ button or STOP ■ button on the remote control. The "MEMORY" indicator will disappear and all the programmed contents will be cleared.

Notes:
- Removing the USB/SD memory device automatically cancels the programmed sequence.
- The programme will automatically cancelled if you press the ON/ STAND-BY button to enter the stand-by mode or change the function from USB/SD to another.
- During the programme operation, press the RANDOM button will automatically cancelled the programme.

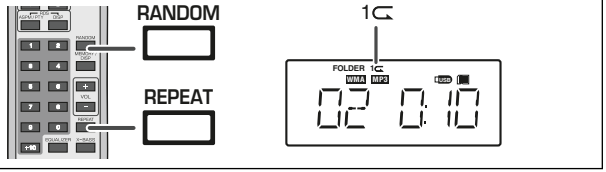




Advanced USB/SD playback (continued)

■ Repeat play (REMOTE CONTROL ONLY)

Repeat play can play single track and all track sequence continuously.



Each time press the button, the repeat mode changes in the following order:

In case of an USB/SD mode:

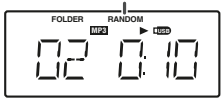
→ Repeat playback of a single track (1)
↓
Repeat playback of all tracks on the disc
↓
Repeat playback of folder on the disc when in folder mode (Folder)
↓
Repeat playback is cancelled

■ Random play (REMOTE CONTROL ONLY)

The tracks can be played in random order automatically.

To random play all tracks:

Press the RANDOM button on the remote control so that the random indicator light up in the display window.



To cancel random playback, press the button again, so that the random indicator will disappear.

Notes:

- If you press the ⏮ ◀◀ or ▶▶ ⏭ button during random play, you can move to the track selected next by the random operation.
- In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)
- During random play, repeat function is not possible.
- In random function, playback will stop after all the tracks are played randomly.

Caution:

After performing repeat, be sure to press the ■ button.
Otherwise, it will play continuously.

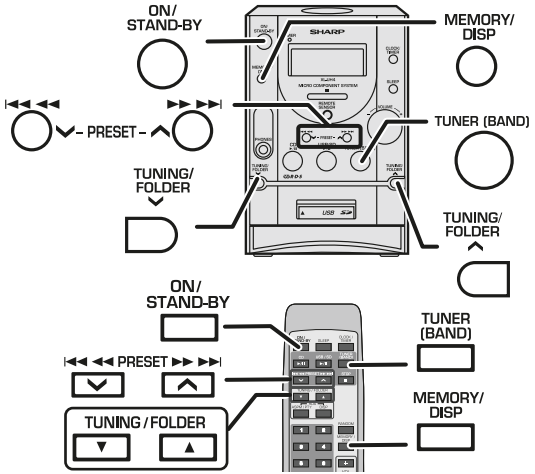
Note:

(※) When in folder mode, the selected playmode can be used for the files in the selected folder only.

Notes:

- This unit only supports "MPEG-1 Audio Layer-3" format. (Sampling Frequency is 32, 44.1, 48kHz) "MPEG-2 Audio Layer-3", "MPEG-2.5 Audio Layer-3" and MP1, MP2 format are not supported.
- Playback order for MP3 files may differ sometimes depending on the writing software used during file download.
- Bitrate which is supported by MP3 is 32~320 kbps, WMA is 64~160 kbps.
- For MP3/WMA files, please put ".MP3" ".WMA" extension. Files cannot be played back if there is no MP3/WMA extension.
- Playlists are not supported on this unit.
- This unit only supports MP3 ID3-Tag version 1.x.
- The display playback time may not be displayed correctly when playing back a variable bitrate file.
- WMA meta tag also supports title, artist and album name which are recorded in WMA files.
- Copyright protected WMA files cannot be played back.

Listening to the radio



■ Tuning

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM or AM).**

3 **Press the TUNING/FOLDER (▼ or ▲) button to tune in to the desired station.**

Manual tuning:

Press the TUNING/FOLDER (▼ or ▲) button as many times as required to tune in to the desired station.

Auto tuning:

When the TUNING/FOLDER (▼ or ▲) button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:

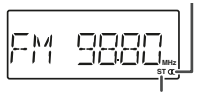
- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING/FOLDER (▼ or ▲) button again.
- When an RDS (Radio Data System) station is tuned in, the frequency will be displayed first, and then the RDS indicator will light up. Finally, the station name will appear.
- Full auto tuning can be achieved for RDS stations "ASPM", see page 30.

To receive an FM stereo transmission:

Press the TUNER (BAND) button to display the "ST" indicator.

- "ꝏ" will appear when an FM broadcast is in stereo.
- If the FM reception is weak, press the TUNER (BAND) button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

FM stereo receiving indicator



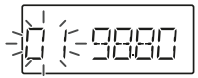
FM stereo mode indicator

■ Memorising a station

Up to 20 station for FM band, 10 station for AM band can be store and recall them at the push of a button. (PRESET (∨ or ∧))

1 **Perform steps 1 - 3 in "Tuning" on page 29.**

2 **Press the MEMORY/DISP button to enter the preset tuning saving mode.**



Continued to the next page

Listening to the radio (continued)

3 Within 10 seconds, press the PRESET (∨ or ∧) button to select the preset channel number.

Store the stations in memory, in order, starting with preset channel 1.

4 Within 10 seconds, press the MEMORY/DISP button to store that station in memory.

If the "MEMORY" and preset number indicators disappear before the station is memorised, repeat the operation from step 2.

5 Repeat steps 1 - 4 to set other stations, or to change a preset station.

When a new station is stored in memory, the station previously memorised for that preset channel number will be erased.

Note:
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead become disconnected.

■ To recall a memorised station

Press the PRESET (∨ or ∧) button for less than 0.5 seconds to select the desired station.

Using the Radio Data System (RDS)

RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sport, music, etc.
When tuned to an RDS station, "RDS" and the station name will be displayed.

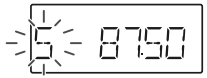
■ Using the Auto Station Programme Memory (ASPM)

Whilst in the ASPM operation mode, the tuner will automatically search for new RDS stations. Up to 20 stations can be stored.
If you have already stored some stations in memory, the number of new stations you can store will be less.

1 Press the TUNER (BAND) button to select the FM band.

2 Press and hold down the RDS (ASPM/PTY) button on the remote control for at least 3 seconds.

1 Scanning will start (87.50 - 108.00 MHz).



2 When an RDS station is found, "RDS" will appear for a short time and the station will be stored in memory.

3 After scanning, the number of stations stored in memory will displayed for 4 seconds and then "END" will appear for 4 seconds.

Note:
ASPM auto scan search will auto stop after 1 cycle from 87.50 MHz to 108.00 MHz.

To stop the ASPM operation before it is complete:
Press and hold the RDS (ASPM/PTY) button for more than 3 seconds whilst it is scanning for stations.
The stations which are already stored in memory will be kept there.

Notes:
- If the same station is broadcasting on different frequencies, the strongest frequency will be stored in memory.
- Any station which has the same frequency as one stored in memory will not be stored.
- If 20 stations have already been stored in memory, the scan will be aborted. If you want to redo the ASPM operation, erase the preset memory.
- If the RDS signals are very weak, station names may not be stored in memory.

To store a station name again if the wrong name was stored in memory:
It may be impossible to store station names in memory using the ASPM function if there is lots of noise or if the signal is too weak. In this case, perform as follows.

1 Press the PRESET (∨ or ∧) button to check whether the names are correct.
2 If you find a wrong name during receiving the station, wait until the correct name will be displayed. And then press the MEMORY/DISP button.
3 Within 30 seconds, press the MEMORY/DISP button whilst the preset channel number is flashing.

- The new station name has been stored in memory correctly.

Notes:
- The same station name can be stored in different channels.
- In a certain area or during certain time periods, the station names may temporarily be different.

■ Notes for RDS operation

If any of the following events occur, it does not mean that the unit is faulty:
- "PS", "NO PS" and a station name appear alternately, and the unit does not operate properly.
- If a particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.
- When you receive an RDS station whose signal is too weak, information like the station name may not be displayed.
- "NO PS", "NO PTY" or "NO RT" will flash for about 5 seconds, and then the frequency will be displayed.

Notes for radio text:
- The first 7 characters of the radio text will appear for 4 seconds and then they will scroll across the display.
- If you tune in to an RDS station which is not broadcasting any radio text, "NO RT" will be displayed when you switch to the radio text position.
- Whilst radio text data is received or when the text contents change, "RT" will be displayed.

Using the Radio Data System (RDS) (continued)

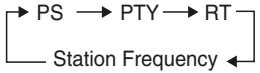
■ To show Radio Data System signals on display

Select an FM station with Radio Data System signals.

1 Press the TUNER (BAND) button to select the FM.

2 Press the RDS DISPLAY button on the remote control.

- The display will switch as follows:



- **PS (Programme Service):**

Whilst searching, "PS" alternately appear on the display.
Then, the station name appears. "NO PS" appears if no signal is sent.

- **PT (Programme Type):**

Whilst searching, "PTY" alternately appear on the display.
Then, the broadcast programme type appears. "NO PTY" appears if no signal is sent.

- **RT (Radio Text):**

Whilst searching, "RT" alternately appear on the display.
Then, the next message sent by the station appears. "NO RT" appears if no signal is sent.

- **Station Frequency:**

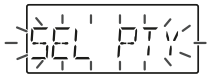
The frequency of the selected station appears on the display.

■ To recall stations in memory

To specify programmed types and select stations (PTY search):
You can search a station by specifying the programme type (news, sports, traffic programme, etc. ... see pages 33 - 34) from the stations in memory.

1 Press the TUNER (BAND) button to select the FM.

2 Press the RDS (ASPM/PTY) button on the remote control.

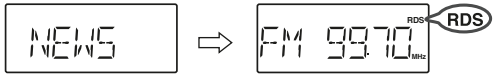


"SEL PTY" (blinking) will appear for about 6 seconds.

3 Within 6 seconds, press the PRESET (∨ or ∧) button to select the PTY code.

Each time the button is pressed, the PTY code will appear. If the button is held down for more than 0.5 seconds, the PTY code will appear continuously.

4 Whilst the selected PTY code is displayed (within 6 seconds), press the RDS (ASPM/PTY) button again.



- The unit searches the 20 preset stations and stops when it finds a station of the selected category then tunes into the station. The RDS indicator lights up.
- If no programme is found in the 20 preset stations, "NO PTY" appear on the display and returns to the previous station.

Notes:

- If the display has stopped flashing, start again from step 2. If the unit finds a desired programme type, the corresponding channel number will lit for about 4 seconds, and then the station name will remain lit.
- If you want to listen to the same programme type of another station, press the RDS (ASPM/PTY) button and start again from step 3. The unit will look for the next station.

To specify station names and select stations manually:

You can select a station by specifying the name (BBC R1, BBC R2, etc.) from the stations stored in memory.

Before starting this operation, you must store one or more station names in memory.

1 Press the TUNER (BAND) button to select the FM band.

2 Press the PRESET (∨ or ∧) button on the remote control to select a desired station.

3 The station name will be displayed for 6 seconds. Then the display will change.

Descriptions of the PTY (Programme Type) codes signal.

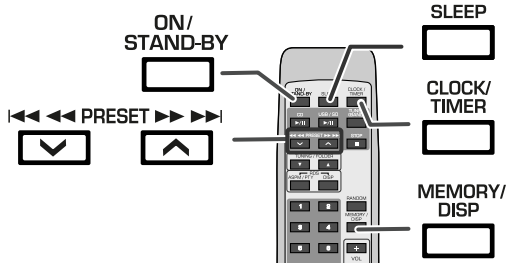
You can search for and receive the following PTY.

NEWS	Short accounts of facts, events and publicly expressed views, reportage and actuality.
AFFAIRS	Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.
INFO	Programmes whose purpose is to impart advice in the widest sense.
SPORT	Programme concerned with any aspect of sport.
EDUCATE	Programme intended primarily to educate, of which the formal element is fundamental.
DRAMA	All radio plays and serials.
CULTURE	Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.
SCIENCE	Programmes about the natural sciences and technology.
VARIED	Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews.
POP M	Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
ROCK M	Contemporary modern music, usually written and performed by young musicians.
EASY M	Current contemporary music considered to be "easy-listening", as opposed to Pop, Rock or Classical, or one of the specialised music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.

Using the Radio Data System (RDS) (continued)

LIGHT M	Classical music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
CLASSICS	Performances of major orchestral works, symphonies, chamber music, etc., and including Grand Opera.
OTHER M	Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.
WEATHER	Weather reports and forecasts and meteorological information.
FINANCE	Stock Market reports, commerce, trading, etc.
CHILDREN	For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.
SOCIAL	Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.
RELIGION	Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.
PHONE IN	Involving members of the public expressing their views either by phone or at a public forum.
TRAVEL	Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.
LEISURE	Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing, Antique collecting, Cooking, Food & Wine, etc.
JAZZ	Polyphonic, syncopated music characterised by improvisation.
COUNTRY	Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.
NATION M	Current Popular Music of the Nation or Region in that country's language, as opposed to International 'Pop' which is usually US or UK inspired and in English.
OLDIES	Music from the so-called "golden age" of popular music.
FOLK M	Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.
DOCUMENT	Programme concerned with factual matters, presented in an investigative style.
TEST	Broadcast when testing emergency broadcast equipment or receivers.
ALARM !	Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.
NONE	No programme type (receive only).

Timer and sleep operation



■ Timer playback

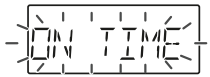
Before setting timer:

1 Check that the clock is set to the correct time (refer to page 14). If it is not set, you cannot use the timer function.
2 For timer playback, load the disc to be played back.

⇩

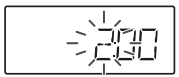
1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the CLOCK/TIMER button for about 2 seconds.**

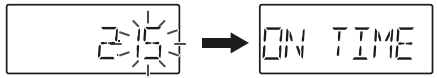


3 **Within 10 seconds, press the CLOCK/TIMER button.**

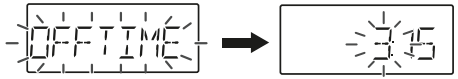
4 **Press the PRESET (∨ or ∧) button to set hour then press the CLOCK/TIMER button.**



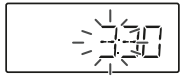
5 **Press the PRESET (∨ or ∧) button to set minute and then press the CLOCK/TIMER button.**



6 **Switch input with the PRESET (∨ or ∧) button to select "OFF TIME" and then press the CLOCK/TIMER button.**



7 **Press the PRESET (∨ or ∧) button to set hour and then press the CLOCK/TIMER button.**



8 **Press the PRESET (∨ or ∧) button to set minute and then press the CLOCK/TIMER button.**

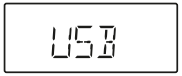
9 **To select the timer playback source, switch input with PRESET (∨ or ∧) button to select "SOURCE" and then press the CLOCK/TIMER button.**

Continued to the next page

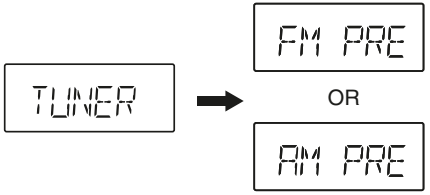
Timer and sleep operation (continued)

10 **To select CD, press the CD ► / II button and then press the CLOCK/TIMER button.**

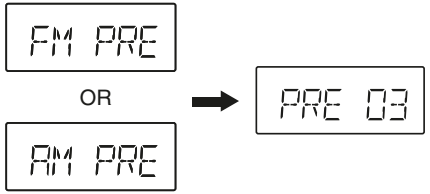
11 **To select USB/SD, press the USB/SD ► / II button and then press the CLOCK/TIMER button.**



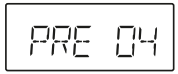
12 **To select TUNER (BAND), press the TUNER (BAND) button and then press the CLOCK/TIMER button.**



13 **Select a station by pressing the PRESET (∨ or ∧) button and then press the CLOCK/TIMER button to set the station selected.**



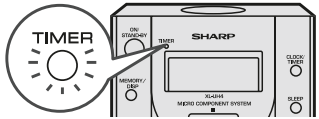
14 **To select a preset channel number, press the PRESET (∨ or ∧) button and then press the CLOCK/TIMER button.**



15 **Press the SLEEP button for more than 2 seconds to activate timer function.**

The "TIMER" indicator lights up and the unit is ready for timer playback.

16 **Press the ON/STAND-BY button to enter the power stand-by mode.**



17 **When the preset time is reached, playback will start at the selected playback source.**

The volume will increase gradually until it reaches the preset volume at 16.

18 **When the timer end time is reached, the system will enter the power stand-by mode automatically.**

To cancel Timer function:

Press the SLEEP button for 2 seconds. The "TIMER" indicator will disappear.

Notes:

- After selecting the playback source, when press the CLOCK/TIMER button to confirm, it will then return to current playback setting.
- When the preset time is reached, playback will start at current setting if no selected playback source is made.
- The volume cannot be preset during timer operation. It will always go to volume 16.

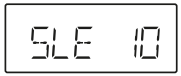
■ Sleep operation

The radio, compact disc and USB/SD can all be turned off automatically.

1 Play back the desired sound source.

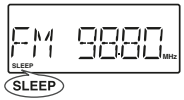
2 Press the SLEEP button to select the time.

(Maximum: 90 minutes - Minimum: 10 minutes)



3 Release the SLEEP button.

"SLEEP" will appear.



4 The unit will enter the power stand-by mode automatically after the preset time has elapsed.

To confirm the remaining sleep time:

1 Whilst "SLEEP" is indicated, press the SLEEP button.

- The remaining sleep time is displayed for about 10 seconds.
- You can change the remaining sleep time whilst it is displayed by pressing the SLEEP button (steps 2 - 3).

To cancel the sleep operation:

To cancel the sleep operation without setting the unit to the stand-by mode, proceed as follows.

1 Whilst "SLEEP" is indicated, press the SLEEP button to select 0 minute.

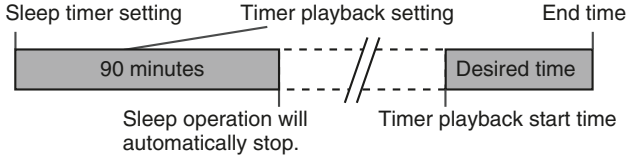
■ To use timer and sleep operation together

Sleep and timer playback:

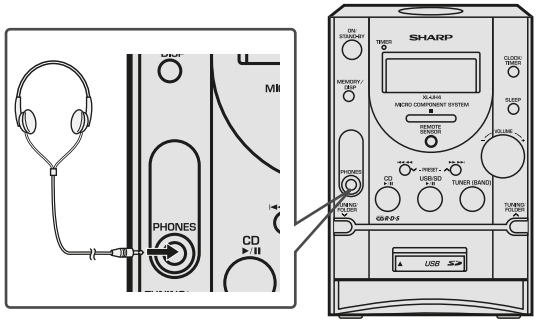
For example, you can fall asleep listening to the radio and wake up to CD in the next morning.

1 Set the sleep time (see left, steps 1 - 4).

2 Whilst the sleep timer is set, set the timer playback (steps 2 - 10, pages 35 - 36).



Enhancing your system



■ Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and impedance between 16 and 50 ohms. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.

Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
● The clock is not set to the correct time.	● Did a power failure occur? Reset the clock.
● When a button is pressed, the unit does not respond.	● Set the unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it.
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● Is the disc loaded upside down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity correct? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

■ Tuner

Symptom	Possible cause
● The radio makes unusual noises continuously.	● Is the unit placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead if it's located nearby.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, etc.) or on the transmitter on the remote control.
Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

■ If trouble occurs

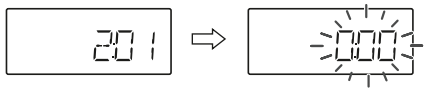
When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:
1 Set the unit to the stand-by mode and turn the power on again.
2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:
If neither operation above restores the unit, clear all the memory by resetting it.

■ Clearing all the memory (reset)

1 Press the ON/STAND-BY button to enter the power stand-by mode.
2 Press and hold the USB/SD button until the clock setting shows 0:00.



Caution:
This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

Troubleshooting chart (continued)

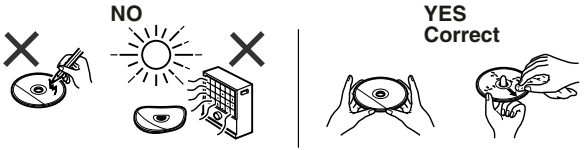
■ Before transporting the unit

Remove the CD from the unit. Make sure there is no CD in the disc tray. Then, set the unit to the power stand-by mode. Carrying the unit with disc left inside can damage the unit.

■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player.

- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.



Maintenance

■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

■ Cleaning the CD pickup lens

Poor performance during CD playback (skipping or jumping) can be caused by a dirty or contaminated CD laser pick up lens. If this happens then the use of a commercially available CD lens cleaning discs may restore normal operation. Contact your supplier or local CD software dealer to obtain CD lens cleaning discs. Ensure all included instructions/documentation are carefully followed.

Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 230 V, 50 Hz
Power consumption	Power on: 26 W Power stand-by: 0.6 W(*)
Dimensions	Width: 144 mm (5-11/16") Height: 210 mm (8-5/16") Depth: 239 mm (9-7/16")
Weight	2.5 kg (5.5 lbs.)

(*)This power consumption value is obtained when the unit is in the power stand-by mode.

■ Amplifier

Output power	RMS: 16 W (8 W + 8 W) (10% T.H.D.) RMS: 12 W (6 W + 6 W) (0.9% T.H.D.)
Output terminals	Speakers: 4 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms)

■ USB/SD

Class	Mass storage class
Support File	MP3/WMA (do not support DRM file)
Format support	FAT 16 or FAT 32
Bitrate support	MP3 (32 ~ 320 kbps) WMA (64 ~ 160 kbps)
Other	MP3 ID3 - tag only supports version 1.x USB supports version 2.0

■ CD player

Type	Compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 87.5 - 108 MHz AM: 522 - 1,620 kHz

■ Speaker

Type	2-way type speaker system 5 cm (2") tweeter 13 cm (5-1/8") woofer
Maximum input power	15 W
Rated input power	8 W
Impedance	4 ohms
Dimensions	Width: 135 mm (5-5/16") Height: 242 mm (9-17/32") Depth: 205 mm (8-1/16")
Weight	1.6 kg (3.5 lbs.)/each

MEMO

MEMO

TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. (“Sharp”) guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:-

1. This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.

2. As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.

3. To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.

4. The guarantee does not cover carriage costs, audio tapes, compact discs or batteries.

5. In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the Sharp Customer Information Centre on the telephone number given below.

6. No person has any authority to vary the terms or conditions of this guarantee.

7. This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information on other Sharp products, please telephone the Sharp Customer Information Centre on the number given below.

Sharp Customer Information Centre - Telephone 08705 274277
(or (01) 676 0648 if telephoning from Ireland)

Customer support website address - www.sharp.co.uk/customersupport.aspx

SHARP

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